



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/037,598

DATE: 01/19/2002

TIME: 11:52:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\01182002\J037598.raw

p.5

3 <110> APPLICANT: Monsanto Co
 4 Concibido, Vergel
 5 Delanney, Xavier
 7 <120> TITLE OF INVENTION: Soybean Plants with Enhanced Yields and Methods for Breeding
 for and
 8 Screening of Soybean Plants with Enhanced Yields
 10 <130> FILE REFERENCE: 38-21(52175)B
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/037,598
 C--> 12 <141> CURRENT FILING DATE: 2002-01-04
 12 <150> PRIOR APPLICATION NUMBER: 06/260,040
 13 <151> PRIOR FILING DATE: 2001-01-05
 15 <160> NUMBER OF SEQ ID NOS: 37
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 24
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Glycine max
 24 <400> SEQUENCE: 1
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 28 <210> SEQ ID NO: 2
 29 <211> LENGTH: 23
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 31 <213> ORGANISM: Glycine max
 33 <400> SEQUENCE: 2
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 37 <210> SEQ ID NO: 3
 38 <211> LENGTH: 25
 39 <212> TYPE: DNA
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 42 <400> SEQUENCE: 3
 43 gcgttttaaat ttatgatata accaa 25
 46 <210> SEQ ID NO: 4
 47 <211> LENGTH: 24
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 49 <213> ORGANISM: Glycine max
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 55 <210> SEQ ID NO: 5
 56 <211> LENGTH: 25
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Glycine max
 60 <400> SEQUENCE: 5
 61 atcaatcgac gcaataatca agaaa 25
 64 <210> SEQ ID NO: 6

Does Not Comply
Corrected Diskette Needed

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67 <213> ORGANISM: Glycine max
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74 <211> LENGTH: 25
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76 <213> ORGANISM: Glycine max
78 <400> SEQUENCE: 7
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82 <210> SEQ ID NO: 8
83 <211> LENGTH: 25
84 <212> TYPE: DNA
85 <213> ORGANISM: Glycine max
87 <400> SEQUENCE: 8
88 ttctatgttc cctgtgcaaa cactg 25
91 <210> SEQ ID NO: 9
92 <211> LENGTH: 25
93 <212> TYPE: DNA
94 <213> ORGANISM: Glycine max
96 <400> SEQUENCE: 9
97 gtctgcaagc taacagtgtc agagg 25
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101 <211> LENGTH: 26
102 <212> TYPE: DNA
103 <213> ORGANISM: Glycine max
105 <400> SEQUENCE: 10
106 cacactcaat ctcattagca gacacg 26
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110 <211> LENGTH: 25
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124 acccgtgtgc cactttaact acatt 25
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129 <212> TYPE: DNA
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132 <400> SEQUENCE: 13
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137 <211> LENGTH: 25

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148 <213> ORGANISM: Glycine max
150 <400> SEQUENCE: 15
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154 <210> SEQ ID NO: 16
155 <211> LENGTH: 28
156 <212> TYPE: DNA
157 <213> ORGANISM: Glycine max
159 <400> SEQUENCE: 16
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163 <210> SEQ ID NO: 17
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166 <213> ORGANISM: Glycine max
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172 <210> SEQ ID NO: 18
173 <211> LENGTH: 29
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175 <213> ORGANISM: Glycine max
177 <400> SEQUENCE: 18
178 gcgtcccatt ttattccaca ctatgtaat 29
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182 <211> LENGTH: 235
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184 <213> ORGANISM: Glycine max
186 <400> SEQUENCE: 19
187 cgacaactct aatgaaaaatc tttattatta ttattattat tattattatt attattattc 60
189 acgaagttcc cttaaaaaat ctttagtaag acacatgcat taattatatg acaataaaaa 120
191 aaaaaagaat tcaaatgttt caaaatgaaa aatcattaat tcacttttat gtcaattatt 180
193 attattatta ttataacatt aattactttg aattgacttt tgaaaaatca aactc 235
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199 <213> ORGANISM: Glycine max
201 <400> SEQUENCE: 20
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204 attattatta ttattattat tattattaaa agttatacat gtaaatatit ttttaagggtg 120
206 acattctgaa taaattttta tatgtgattt gggaaaagta gagacaagtt caccctaaaa 180
208 ttaatattca gtaagtggaa cgtctccaaa ttattataa aaattgtaaa tattttattct 240
210 atgcgactga agttgtggaa aaagagataa aa 272
213 <210> SEQ ID NO: 21
214 <211> LENGTH: 280

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215 <212> TYPE: DNA
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221 attatatata tatatatata tatatatata tatatatata gacaccccaa      120
223 taaaaatcat attaaaacaa ttataattca taatattcag aataaataaa aatattgaaa      180
225 taaatggcaa cacctcatcg tattcaaata aatataattg acacaacttt atactcaatt      240
227 ttttggttcc tggaatgaca tcccattgtc ttctcatcat      280
230 <210> SEQ ID NO: 22
231 <211> LENGTH: 366
232 <212> TYPE: DNA
233 <213> ORGANISM: Glycine max
235 <400> SEQUENCE: 22
236 caggcttcag tgtgcataat acagggtttct gttggtggga ctttctccca acatttcatt      60
238 ttgggatttt ctcccaacct ttattttgtc tgacctagt cgtaatagtt ctaaccttcc      120
240 ttccttcctt catgtttcat tctgtatcct gttttttggt atttcagggg gttgtttgag      180
242 cctagtaggg ggccagggtgt caacctatag ttgggatttc accocttagg ctgaaatttc      240
244 ctttcctcac ttaagtaaaa aaaaaaacia aaagtttttag tttttgtatg aaaatgcttt      300
246 tttatagcaa ttttatatga ttagaaaatt aaactattcc ccagtgtttg cacaggggaa      360
248 atagaa      366
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252 <211> LENGTH: 96
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254 <213> ORGANISM: Glycine max
256 <400> SEQUENCE: 23
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259 aatgatgaaa cgtgtctgct aatgagattg agtgtg      96
262 <210> SEQ ID NO: 24
263 <211> LENGTH: 321
264 <212> TYPE: DNA
265 <213> ORGANISM: Glycine max
267 <400> SEQUENCE: 24
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270 actttattta taaaacaaat atttgtactt caattataac aacaaattta agaagaatat      120
272 atatatatat atattttgtga tggaaatgat catgaaagaa acagaatcaa tatttcttat      180
274 aatcaagaaa aataatagac tcattttattt cttataaaaa gaaggagata aagtataaaa      240
276 tacaaatggg aaacataaaa gaaaaaaaaa ctttttttga ccggtatggg aacgaaaatg      300
278 tagttaaagt ggcacacggg t      321
281 <210> SEQ ID NO: 25
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283 <212> TYPE: DNA
284 <213> ORGANISM: Glycine max
286 <400> SEQUENCE: 25
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289 gttagttaat ttgtatatat attggtgata tgtctgaagt taagttaatt ggccatgcat      120
291 gtgtgtgtgt gtggtagtga gaagaattga gaaaagaat gtggtctcca aagtccaacc      180
293 aatac      185
296 <210> SEQ ID NO: 26
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298 <212> TYPE: DNA

299 <213> ORGANISM: Glycine max

301 <400> SEQUENCE: 26

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302 tgtgttttac aatatttaga gaaacttggt tgatatcaca aaaaattgta agacaaaatt    60
304 aatgtcaagt gagtttagaa tactaaatga aaattttaac ataaaaaaa aaaaatcaat    120
306 ggaatggaac ccattccagcg caactagctg agtcacatac agtgccaaaa gacatgggta    180
308 ctacaaatgc tcactttagt ggctatggaa caaccatcag cattcagctc ttctttttt    240
310 ctgtcgtagg ccaagagaca aagtttgtca caggtttaca aattgattgt ggccacaatc    300
312 acacggtaaa cattagaatg gaagaaaaaa aatctgtcta tgatcgatgt cgtgaacttc    360
314 acccactcca tcaatgaaga atttatttta aatacagtta cacaccaact taataagact    420
316 ttttgcacaa aattacctga ttgggaggaa tatgaattgt cttataaatc acgtattcac    480
318 aagttctact ttacaaaac tctttacatg tattttccaa aaaaagaaaa atctttacat    540
320 gtatgttaac ctacctaaca aatctctaata taacctataa attttttaaa tgctttttga    600
322 gaaaacttta taggcagata gaagattggt gagagttttt taaatgctta tcaacaatct    660
324 ccgatatgccc cttagcttta ccaagtacat gaaaatctta catataatgc ttttacttta    720
326 ccaactatta acttgagcac cgaaatcttt accagtatgc tcatttgatg catattaaaa    780
328 tgtacaaaat tttatagagg cctgatcaat accatcgaat gaaaccttaa tgacatgcta    840
330 cttgttagcg atgtcaataa aggcttactc aaggattatt ccacaggcct aaatcataga    900
332 caattttact taattgtatt tattcaatta gtccttagat gtcaaagaat ctattagatg    960
334 atagtttttag tggcatgata gagaatgaaa cccacatcta taaaaaaaag aagacaaaag    1020
336 ttagtttttag atctttaatc acttggtgta attcatatta gttttacgtg tattcgaagt    1080
338 gaaaatattc atctgtatga gaccataaac aacatataaa gagacttggt tgaagtataa    1140
340 tttttcatag tacagtaaaag ctgattgttg tttttctcgc tacgcaaaat ttatattcag    1200
342 gacaatgttt aagagtgaag acataataaa attaacctca caaaaagtaa gtatatatat    1260
344 atatatatat atatatatat atatatataa ctcaatcaat taaaataata ataaggacaa    1320
346 ataaatagat tctcacaaaa tataatttat tattaaatta atttttaaca ttataactta    1380
348 acgataaaat atttttttta ttttttttta tgaactaatt taacaactca tcacatcttg    1440
350 caaaacaaaa tgaatcattt atcctaataa taatttaatt taggogttta ttttatgatg    1500
352 attttagcatc tttttggag aatactataa agaaaaagaa atattcagga    1560
354 tgaaaaatga aatgcgtgtg aaaattggaa ggaggtaagg ctgggtcgac ccagatctag    1620
356 ttgagctcac caactcccgc tcccatttcc ttatttatag acagagtctg attgtttcct    1680
358 caccactccc tccactctct ttctctagtc ctgttatttc tcagcgcgta aagcatggct    1740
360 ttgttggtgg agaaaaccac gagtggtcgc gagtacaagg tcaaggacct ttcccaggcc    1800
362 gacttcgggc gccctcgagat cgagctggcc gaggttgaga tgcccggcct catggcctgt    1860
364 cggaccgagt tcggccctc ccagcccttc aagggggccc gcatcaccgg ctccctccac    1920
366 atgaccatcc agaccgcgt tctcatttag accctcaccg cccttggcgc cgaggtccgc    1980
368 tgggtgctcct gcaacatctt ctccaccag gaccacccgc ccgcgcgtat tgccgcgcac    2040
370 agtgccgcgc tcttcgcctg gaagggtgag accctccagg agtaactggtg gtgcaccgag    2100
372 cgcgcctcgc actggggccc cgggtggtgga cccgacctca tcgtcgacga cgggtgtgac    2160
374 gctacccttc tcatccacga aggcgtcaag gccgaggagc tctatgagaa gaccggcgaa    2220
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386 ttggatgggt tttgtgcat tggtgaaatg aggttttgaa cctgtcaact gtttgactaa    2580
388 tgtcctctaa gaagtctgga tcggtattgg gtgctatttt agtgtgtttg gatctgtgtg    2640
390 ttgaaacgtc agaacattag taagttgctt gctaacgtga ctttaggtaa atggtcacat    2700
392 gttttattac acaaataagg aattgattct gagtgcacat tttgatttga agctactttt    2760

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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DATE: 01/19/2002

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Input Set : A:\ES.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34